

WM975-15 Supply Chain and Operations Management

20/21

Department

WMG

Level

Taught Postgraduate Level

Module leader

Mujthaba Ahtamad

Credit value

15

Assessment

100% coursework

Study location

University of Warwick main campus, Coventry

Description

Introductory description

Supply Chain and Operations Management is designed to equip future leaders with practical knowledge of how to effectively manage supply and demand within the supply network. The module will also explore the management of supply network relationships, as well as understanding the impact of efficient delivery in companies which value customer centricity. The module will also cover topics such as operations management and lean to encourage supply networks to remain efficient and cost-effective to deliver value for the customer who are central in the global economy.

[Module web page](#)

Module aims

This module covers a wide range of topics in supply chain strategies, design, planning, operations and development. Emphasis has been laid mainly on the perspective of integrated supply. Considerations of systems thinking and a process perspective of operations management, and relationship development is shown as key to an effective, efficient and ethical supply chain. The module aims to provide students with a comprehensive understanding of key decision areas and responses affecting supply performance.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

- The module will begin by focusing on understanding the fundamental principles of Supply Chain Management & Operations Management by looking at definitions, links, and fundamentals.
It will establish the links to business objectives and the external world (an understanding of students own supply chain). These activities will be supported by in-module exercises to demonstrate the above principles/theory.
- Building on this, the module will focus on the physical supply chain, by looking at topics such as network design and segmentation. Key components of Operations Management will also be established with in-module exercises focussing on Capacity/Inventory Management.
- Focus on Network Integration - The learning will continue to build on concepts from the in-module exercises on the previous sessions to further explore control systems, and Sales & Operations Planning (S&OP). This will provide further links into a focus on Relationships (evaluation and development) – Sourcing strategies, Costings
- The module will proceed to look at product and information flows specifically looking into the Principles of Lean which will also be supported by in-module exercises. There will be time to further explore practical case-studies and to allow in-module assessment preparation.
- As a consolidation of the learning from the module, a Supply Chain and Operations Management Clinic with a focus on the PMA will be conducted. This will be followed by an in-module assessment to conclude the face to face contact.

Learning outcomes

By the end of the module, students should be able to:

- Compare and contrast different supply chain strategies for the effective supply of products and services in a range of contexts.
- Critically evaluate and adopt appropriately, elements of operations management for successful supply chain process delivery.
- Critically assess and develop effective relationships within supply networks.
- Apply relevantly and appropriately the principles, models and tools to a business issue so demonstrating the application of module learning to their business context.

Indicative reading list

Supply chain management: strategy, planning, and operation

Book by Sunil Chopra; Peter Meindl 2019: ISBN-10: 0136094511

Operations and process management: principles and practice for strategic impact

Book by Nigel Slack; Alistair Brandon-Jones 2018: ISBN-10: 9781292176130

The handbook of logistics and distribution management

Book by Alan Rushton; Phil Croucher; Peter Baker 2017: ISBN-10: 074947677X

The Lean Toolbox 5th Edition

Book by John Bicheno and Matthias Holweg 2016: ISBN-10: 0956830757

The definitive guide to inventory management: principles and strategies for the efficient flow of inventory across the supply chain Book by Matthew A. Waller; Terry L. Esper 2018: ISBN-10 0133448827

Purchasing and Supply Chain Management: A Sustainability Perspective

Book by T.E Johnson, M.Howard & J Miemczyk 2018: ISBN-10: 1138064769

Dynamic Supply chains

Book by Gattorna, J 2015 ISBN-10: 1292016817

Subject specific skills

Supply Chain Dynamics, Enhanced Decision-Making, Balancing Supply and Demand, Analytical Skills

Transferable skills

Team-building, Communication, Numeracy, Data Handling, Time- Management

Study

Study time

Type	Required
Lectures	20 sessions of 1 hour (13%)
Seminars	20 sessions of 1 hour (13%)
Online learning (independent)	10 sessions of 1 hour (7%)
Other activity	100 hours (67%)
Total	150 hours

Private study description

No private study requirements defined for this module.

Other activity description

60 hours- self-study leading to individual Post Module Assignment.

40 hours- Individual reflection / work-based learning recorded in Apprenticeship Portfolios to form a significant proportion of their Apprenticeship End Point Assessment.

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group A

	Weighting	Study time
Computer-based in class test / Post Module Assignment (Essay) / Open Book Assessment (Computer-based take home test)	100%	
Computer-based in class test (10%)		An in-module quiz to ensure that students have read the available content we have provided online, regarding a specific topic within the module.
Post Module Assignment (Essay) (70%)		An individual written assignment of 3,500 words.
Open Book Assessment (Computer-based take home test) (20%)		An open book assessment where students generate questions and answers (during the module week in dedicated forums) which will be added to a bank of pre-approved questions. 20 appropriate questions will be selected from the question bank and be published online for students to complete once the module has concluded, prior to a set deadline.

Feedback on assessment

Feedback (written) will be provided for all 3 assessments (in-module assessments will be a pass/fail), which will follow the current WMG MSc feedback process and will include suggestions on the strengths and weaknesses of the work with regard to the module learning objectives and the post-module assignment marking guidelines. Suggestions for improvement will also be provided as per the current MSc feedback process. ¿Feedforward¿ & suggestions will be made by the tutors, depending on questions raised by students about the PMA questions.

Availability

There is currently no information about the courses for which this module is core or optional.